

2/16/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	
PO038929	MEC002-VU	1	1	Net 30	M7075T73B4.000x4.000	7075-T73 Bar 4.0 X 4.0 Grain Direction Along 4" Wide : MATERIAL: 7075-T73 OR 7075-T7351/T73510/T73511 BAR PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078 receive ft				48	2/26/2018	48		S043346	Stock	2/16/2018	\$ 107.58 / ft	0	
		6			M7075T6S7.000X2.000	7075-T6S Sheet 7" Thick Plate X 2" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft						45		S043347	Stock	2/16/2018	\$ 78.52 / ft	0	
		11			M7075T6S1.000X2.500	7075-T6S Sheet 1" Thick Plate X 2.5" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft				12		12		S043348	Stock	2/16/2018	\$ 30.42 / ft	0	
Total:										108			105						

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Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

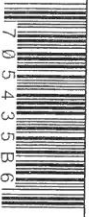
Page 1 of 2

Shipment No:3511510

Ship From: A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 13-FEB-18	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier XPO LOGISTICS FREIGHT	BOL No 3511510-2

Shipment Details

Final Destination Branch - WIE

Order No	Line No	Item No	Description
5033934	3	752188.MO	1.0000.PL.7075.T651.ALUMINUM.US1.48.5000.144.5000 CUT 2SIDED TO 2.5 IN (+ .1250/- .0000 IN) X 144.5 IN () - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 Email P/s and certs to: clavoie@dartaero.com
Purchase Order No	Part Number		Ordered Qty
38929			1.00 PCS
Invoice Qty	1.00 PCS		
Details			
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			
Delivery No.	Mill/Source	Heat Number	Mech Id
121625932	KAISER ALUMINUM	 7 0 5 4 3 5 B 6	1
		PCS	Width (IN)
		Length (IN)	Shipped Qty(LBS)
			37.6174

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

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Reviewed by Authorized Castle Metals Representative:

William R. Hayes
W. R. Hayes
1-40 KS

Date: Name:



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A. M. Castle & Co.

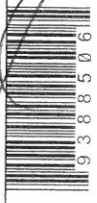
PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3511510

Ship From: A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 13-FEB-18	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier XPO LOGISTICS FREIGHT	BOL No 3511510-2

Shipment Details	Final Destination Branch - WIE
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Order No 5033934	Line No 1	Item No 750616.MO	Description 2.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 7 IN (+ .1250/- .0000 IN) X 107 IN () - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 Email P/s and certs to: clavoie@dartaero.com		
Purchase Order No 38929	Part Number	Ordered Qty 5.00 PCS	Invoice Qty 5.00 PCS		
Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS					
Delivery No. 121625932	Mill/Source CONSTELLUM ROLLED PRODUCTS	Heat Number  93885061	Mech Id	PCS 5	Width (IN)
					Length (IN)
					Shipped Qty(LBS) 773.1274

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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

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Page 2 of 2

Reviewed by Authorized Castle Metals Representative:	<i>Amison R. Taylor</i>	DATE	1-40-18
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Date: Name:



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A. M. Castle & Co.

Page 1 of 2

Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 15-FEB-18		F.O.B. ORIGIN		Freight Terms Prepaid		Carrier MANITOULIN	
						BOL No 3514120-2	

Shipment No: 3514120

Shipment Details				Final Destination Branch - TOR			
Order No 5033877	Line No 1	Item No 752132.MO	Description 4.0000.PL.7075.T7351.ALUMINUM.US1.48.5000.144.5000 CUT 2SIDED TO 48.5 IN ((GRAIN TO RUN ALONG 4")) X 4 IN (+ .1250/- .0000 IN (GRAIN TO RUN ALONG 4")) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 Email P/s and certs to: clavoie@dartaero.com	Ordered Qty 12.00 PCS	Invoice Qty 12.00 PCS		
Purchase Order No 38929				Part Number			
Details				ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			

Delivery No.	Mill/Source	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
121623367	KAISER ALUMINUM			2			160.8277
121623367	KAISER ALUMINUM			10			804.1384

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Page 2 of 2

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Reviewed by Authorized Castle Metals Representative

Date: Name:

FEB 15 2018



STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - NOT NEGOTIABLE

RECEIVED, Subject to the classification and tariffs in effect on the date of issue of this Bill of Lading. The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper No.: 3511510-2
FROM AT: A. M. Castle & Co.
3050 S HYDRAULIC
WICHITA
KS 67216 USA

Ship Date: 13-FEB-18

Consigned To:
DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY ON
K6A 1K7 CAN

Delivery instructions:
ALL LOADS MUST BE TARPED. DELIVER
PACKING LIST AND TEST REPORTS OR
CONSIGNEE WILL REFUSE.

Payment Terms:
Prepaid
REMIT FREIGHT INVOICES TO:
RayTrans Management, Inc.
PO Box 1210
Washington PA 15301

Carrier Name:
XPO LOGISTICS FREIGHT

Additional Insurance Coverage:
The agreed or declare value for the property is hereby specifically stated by the shipper to be not exceeding:
_____ per _____

Shipment Breakdown:

Quantity	Packaging	Class	Commodity
1	SKID	50	Metal Product
1	TUBE	50	Metal Product

Shipment Weights:

Product	811 LBS
Dunnage	43 LBS
Gross	854 LBS

ORDER DETAIL:

Customer PO	Sales Order No.	Line No.	Castle Item No.	Quantity Shipped	Castle UOM
38929	5033934	3	5033934*3*1	1	PCS
38929	5033934	1	5033934*1*1	5	PCS

Subject to Section 7 of Conditions of applicable bill of Lading. If this shipment is to be delivered to the consignee without recourse to the consignor, the consignor shall sign the following statements.
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE: Where the rate is dependent on value, the shippers are required to state specifically in writing the agreed or declared value of the property.

THIS SHIPMENT IS TO BE TENDER RECEIVED AND TO BE CARRIED SUBJECT TO ALL TERMS AND CONDITIONS OF THE STEAMSHIP COMPANIES CURRENT FORM BILL OF LADING

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

Customer is responsible for all shipping documents and compliance with United States and Canadian laws, including but not limited to U.S. and Canadian Export laws and regulations.

SHIPPER, PER:

Alison R. Yates
insert creator's name

Per

Shipper No.: 3511510-2

Date

Driver's Signature

PROOF OF DELIVERY:

Signature / Date

Name

Please Print Name Here

All pages must be signed

Page 1 of 1

1 SKID @ 120 x 36 x 7
1 Tube @ 150 x 4 x 4

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - NOT NEGOTIABLE

RECEIVED, Subject to the classification and tariffs in effect on the date of issue of this Bill of Lading. The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper No.: 3511510-2
FROM AT: A. M. Castle & Co.
3050 S HYDRAULIC
WICHITA
KS 67216 USA

Ship Date: 13-FEB-18

Consigned To:
DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY ON
K6A 1K7 CAN

Delivery instructions:
ALL LOADS MUST BE TARPED. DELIVER
PACKING LIST AND TEST REPORTS OR
CONSIGNEE WILL REFUSE.

Payment Terms:
Prepaid
REMIT FREIGHT INVOICES TO:
RayTrans Management, Inc.
PO Box 1210
Washington PA 15301

Carrier Name:
XPO LOGISTICS FREIGHT

Additional Insurance Coverage:
The agreed or declare value for the property is hereby specifically stated by the shipper to be not exceeding:
_____ per _____

Shipment Breakdown:

Quantity	Packaging	Class	Commodity
1	SKID	50	Metal Product
1	TUBE	50	Metal Product

Shipment Weights:

Product	811 LBS
Dunnage	43 LBS
Gross	854 LBS

ORDER DETAIL:

Customer PO	Sales Order No.	Line No.	Castle Item No.	Quantity Shipped	Castle Item
38929	5033934	3	5033934*3*1	1	PCS
38929	5033934	1	5033934*1*1	5	PCS

Subject to Section 7 of Conditions of applicable bill of Lading. If this shipment is to be delivered to the consignee without recourse to the consignor, the consignor shall sign the following statements. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE: Where the rate is dependent on value, the shippers are required to state specifically in writing the agreed declared value of the property.

THIS SHIPMENT IS TO BE TENDER RECEIVED AND TO BE CARRIED SUBJECT TO ALL TERMS AND CONDITIONS OF THE STEAMSHIP COMPANIES CURRENT FORM BILL OF LADING

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____

THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

Customer is responsible for all shipping documents and compliance with United States and Canadian laws, including but not limited to U.S. and Canadian Export laws and regulations.

SHIPPER, PER:

Alison K. Taylor
insert creator's name

Per

Shipper No.: 3511510-2

Date

Driver's Signature

PROOF OF DELIVERY:

Signature / Date

Name

Please Print Name Here

All pages must be signed

Page 1 of 1

1 SKID @ 120 x 36 x 7

1 Tube @ 150 x 4 x 4



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A. M. Castle & Co.

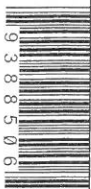
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Page 1 of 2

Shipment No:3511510

Ship From:		Sold To:		Ship To:	Deliver To:
A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped	F.O.B.	Freight Terms		Carrier	BOL No
13-FEB-18	ORIGIN	Prepaid		XPO LOGISTICS FREIGHT	3511510-2

Shipment Details		Final Destination Branch - WIE	
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Order No	Line No	Item No	Description	Ordered Qty	Invoice Qty		
5033934	1	750616.MO	2.0000.PL.7075.T651.ALUMINUM.US1.48.5000.144.5000 CUT 2SIDED TO 7 IN (+ .1250/- .0000 IN) X 107 IN () - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 Email P/s and certs to: clavoie@artaero.com	5.00 PCS	5.00 PCS		
Purchase Order No		Part Number					
38929							
Details		ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@artaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS					
Delivery No.	Mill/Source	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
121625932	CONSTELLUM ROLLED PRODUCTS	 9 3 8 8 5 0 6		5			773.1274

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NORTH AMERICAN FREE TRADE AGREEMENT
CERTIFICATE OF ORIGIN

19 CFR 181.11, 181.22

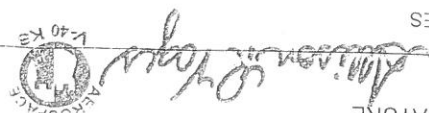
Shipment# 3511510

1. EXPORTER NAME, ADDRESS AND EMAIL A. M. Castle & Co. 1420 Kensington Road, Suite 220 Oak Brook, IL 60523 USA TAX IDENTIFICATION NUMBER: 36-0879160		2. BLANKET PERIOD ONE TIME SHIPMENT FROM (mm/dd/yyyy) TO (mm/dd/yyyy)	
3. PRODUCER NAME, ADDRESS AND EMAIL TAX IDENTIFICATION NUMBER: Available Upon Customs Request		4. IMPORTER NAME, ADDRESS AND EMAIL DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA TAX IDENTIFICATION NUMBER:	

Description of Good(s)		5.	6.	7.	8.	9.	10.
750616 MO	2.0000 PL 7075 T651 ALUMINUM US1.48 5000.144 5000	(Heat-9388506)	760612	B	No2	No	US
752188 MO	1.0000 PL 7075 T651 ALUMINUM US1.48 5000.144 5000	(Heat-70543586)	760612	B	No2	No	US

I certify that:

- The information on this document is true and accurate and I assume responsibility for proving such presentations. I understand that I am liable for any false statements or material omissions made on or in connection with this document;
- I agree to maintain and present upon request, documentation necessary to support this certificate, and to inform, in writing, all persons to whom the certificate was given of any changes that would affect the accuracy or validity of this certificate;
- The goods originated in the territory of one or more of the parties, and comply with the origin requirements specified for those goods in the North American Free Trade Agreement, and unless specifically exempted in Article 411 or Annex 401, there has been no further production or any preparation outside the territories of the parties; and
- This certificate consists of 1 pages, including all attachments

11a. AUTHORIZED SIGNATURE  ALLISON VOGES	11b. COMPANY A. M. Castle & Co.	11d. TITLE OPERATIONS
11e. DATE (mm/dd/yyyy) 02/13/2018	11f. TELEPHONE NUMBERS (800) 373-7736 (Voice) (Facsimile)	11g. EMAIL avoges@amcastle.com




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Page 1 of 2

Shipment No:3511510

Ship From: A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 13-FEB-18	F.O.B. ORIGIN	Freight Terms Prepaid		Carrier XPO LOGISTICS FREIGHT		BOL No 3511510-2	
Shipment Details							
Final Destination Branch - WIE							
Order No 5033934	Line No 3	Item No 752188.MO	Description 1.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 2.5 IN (+ .1250/- .0000 IN) X 144.5 IN () ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12 Email P/s and certs to: clavoie@dartaero.com				
Purchase Order No 38929	Part Number		Ordered Qty 1.00 PCS		Invoice Qty 1.00 PCS		
Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS							
Delivery No. 121625932	Mill/Source KAISER ALUMINUM	Heat Number  705435B6	Mech Id	PCS 1	Width (IN)	Length (IN)	Shipped Qty(LBS) 37.6174

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A. M. Castle & Co.

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Page 2 of 2

Reviewed by Authorized Castle Metals Representative:

A. M. Castle
& Co.



Date:

Name:

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Ln#	Ordering Information	Shipping Cost / UOM	Amount
1	Purchase Order #: 38929 Order #: 5033934 Line #: 1 Item #: 750616.MO Item Description: 2.0000 PL.7075.1651 ALUMINUM .US1.48.5000.144.5000 Cutting Description: CUT 2SIDED TO 7 IN (+ .1250/- .0000 IN) X 107 IN () Process Description: - ALUMINUM PLATE SAW Country of Origin: US Heat Number: 9388506 Specifications: AMS-QA-250/12 Email P/s and certs to: clayote@dartaero.com	Net Shipped Weight: 773.13 LBS Shipped Qty: 5 PCS Unit Price: 700.14 / PCS	3,500.68
Line Total: 3,500.68 Taxes: 455.09 Invoice Total: 3,955.77			
Remit to Currency: USD			

Freight/INCO Terms: Paid HAWKESBURY ON K6A 1K7 Canada

Shipped Via: XPO LOGISTICS FREIGHT

Contract No.
BOL #: 3511510-2

VAT:

 Castle Metals®		A. M. Castle & Co. (Canada) Inc.	
COMMERCIAL INVOICE Number: 5033934-1-3511510-2		Shipping Mark: Delivery Number: 121625932	
Ship From: A. M. Castle & Co. (Canada) Inc. 3050 S HYDRAULIC WICHITA KS 67216 USA		Remit To: A.M. CASTLE & CO. (CANADA) INC. DEPT 410079 PO BOX 4375 STN A TORONTO, ON M5W 0J3	
Order No. 5033934		Date Shipped 13-FEB-2018	
Acct No 50676		Customer P.O. No 38929	
SOLD TO:		SHIP TO	
DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA	
DELIVER TO		Payment Terms	
DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA	

COMMERCIAL INVOICE
 Number: 5033934-1-3511510-2



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 2 of 2

Reviewed by Authorized Castle Metals Representative:

William D. Taylor



Date:

Name:

NORTH AMERICAN FREE TRADE AGREEMENT
CERTIFICATE OF ORIGIN

19 CFR 181.11, 181.22
Shipment# 3511510

1. EXPORTER NAME, ADDRESS AND EMAIL A. M. Castle & Co. 1420 Kensington Road, Suite 220 Oak Brook, IL 60523 USA TAX IDENTIFICATION NUMBER: 36-0879160		3. PRODUCER NAME, ADDRESS AND EMAIL TAX IDENTIFICATION NUMBER: Available Upon Customs Request	
2. BLANKET PERIOD ONE TIME SHIPMENT FROM (mm/dd/yyyy) TO (mm/dd/yyyy)		4. IMPORTER NAME, ADDRESS AND EMAIL DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA TAX IDENTIFICATION NUMBER:	

Description of Good(s)		5.	6.	7.	8.	9.	10.
(Heat-9388506)		2.0000,PL,7075,1651,ALUMINUM,US1,48,5000,144,5000	760612	B	No2	No	US
(Heat-705435B6)		1.0000,PL,7075,1651,ALUMINUM,US1,48,5000,144,5000	760612	B	No2	No	US

I certify that:

- The information on this document is true and accurate and I assume responsibility for proving such presentations. I understand that I am liable for any false statements or material omissions made on or in connection with this document;
- I agree to maintain and present upon request, documentation necessary to support the accuracy or validity of this certificate, and to inform, in writing, all persons to whom the certificate was given of any changes that would affect the accuracy or validity of this certificate;
- The goods originated in the territory of one or more of the parties, and comply with the origin requirements specified for those goods in the North American Free Trade Agreement, and unless specifically exempted in Article 4.11 or Annex 40.1, there has been no further production or any preparation outside the territories of the parties; and
- This certificate consists of 1 pages, including all attachments

11a. AUTHORIZED SIGNATURE

Allison Voges
AEROSPACE
L-40 KE

11b. COMPANY A. M. Castle & Co.

11d. TITLE

OPERATIONS

11e. DATE (mm/dd/yyyy)

02/13/2018

11f. TELEPHONE NUMBERS

(800) 373-7736
(Voice)

(Facsimile)

11g. EMAIL

avoges@amcastle.com

Packing Info:				
Qty	Packaging Description	Net Weight	Tare Weight	Gross Weight
1	SKID 120 X 36 X 7	773 LBS	33 LBS	806 LBS
1	TUBE 150 X 4 X 4	38 LBS	10 LBS	48 LBS



These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

13 February 2018 15:15:25 PM

13 February 2018 15:15:25 PM

Page 3 of 4

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A.M. Castle & Co. hereby certify this invoice to be true and correct in all particulars	
Signature	 

Combined Invoice Total:	
Total Extended Line Amount	3,865.72
Total Tax Amount	502.54
Grand Total	4,368.26

Number: 5033934-1-3511510-2
5033934-3-3511510-2
BOL Number: 3511510-2
Delivery Nbr: 121625932

Commercial Invoice Summary

A. M. Castle & Co. (Canada) Inc.

Castle Metals®



Line Total:	365.04
Taxes:	47.45
Invoice Total:	412.49
Remit to Currency: USD	


Ln#	3	Ordering Information	Purchase Order #: 38929	Net Shipped Weight:	37.62 LBS	Shipping Cost / uom	Amount	365.04
		Order #: 5033934 Line #: 3	Item #: 752188.MO	Ordered: 1 PCS	Shipped Qty:	1 PCS		
			Item Description: 1.0000.PL.7075.1651.ALUMINUM.148.5000.144.5000	Unit Price:		365.04 / PCS		
			Cutting Description: CUT 2SIDED TO 2.5 IN (+ .1250/- .0000 IN) X 144.5 IN ()					
			Process Description: - ALUMINUM PLATE SAW					
		Country	of Origin	Tariff Code:	Export License	ECCN	ITAR	
		US		7606123030	NLR	EAR99	N/A	
		Heat Number	705435B6					
		Specifications:	AMS-QQ-A-250/12					
		Email P/s and certs to:	clavioe@dartaero.com					

Freight/INCO Terms: Paid HAWKESBURY ON K6A 1K7 Canada

Shipped Via: XPO LOGISTICS FREIGHT

Contract No.
BOL #: 3511510-2

VAT:

 Castle Metals® A. M. Castile & Co. (Canada) Inc.		COMMERCIAL INVOICE Number: 5033934-3-3511510-2	
Ship From: A. M. Castile & Co. (Canada) 3050 S HYDRAULIC WICHITA KS 67216 USA		Remit To: A.M. CASTLE & CO. (CANADA) INC. DEPT 410079 PO BOX 4375 STN A TORONTO, ON M5W 0J3	
Order No. 5033934		Date Shipped 13-FEB-2018	
Acct No 50676		Customer P.O. No 38929	
SOLD TO:		SHIP TO	
DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA	
DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA	

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Ln#	Ordering Information	Shipping Cost / UOM	Amount
1	Purchase Order #: 38929 Order #: 5033934 Line #: 1 Item #: 750616.MO Item Description: 2.0000.PL.7075.T651.ALUMINUM.U.SI.48.5000.144.5000 Cutting Description: CUT 2SIDED TO 7 IN (+ .1250/- .0000 IN) X 107 IN () Process Description: - ALUMINUM PLATE SAW Country of Origin: US Tariff Code: 7606123030 Export License: NLR ECN: EAR99 ITAR: N/A Specifications: AMS-QQ-A-250/12 Email P/s and certs to: clayvie@dartaero.com	Net Shipped Weight: 773.13 LBS Shipped Qty: 5 PCS Unit Price: 700.14 / PCS	Line Total: 3,500.68 Taxes: 455.09 Invoice Total: 3,955.77

Remit to Currency: USD

Freight/INCO Terms: Paid HAWKESBURY ON K6A 1K7 Canada

Shipped Via: XPO LOGISTICS FREIGHT

Contract No.
BOL #: 3511510-2
VAT:

Ship From: A. M. Castle & Co. (Canada) Inc. 3050 S HYDRAULIC WICHITA KS 67216 USA		Remit To: A.M. CASTLE & CO. (CANADA) INC. DEPT 410079 PO BOX 4375 STN A TORONTO, ON M5W 0J3	
Order No. 5033934		Date Shipped 13-FEB-2018	
Acct No 50676		SHIP TO	
SOLD TO: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA		DELIVER TO DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA	
Payment Terms		Due Date	Delivery Number: 121625932
Terms		Customer P.O. No	Shipping Mark:
COMMERICAL INVOICE Number: 5033934-1-3511510-2		COMMERICAL INVOICE Number: 5033934-1-3511510-2	

Castle Metals

A. M. Castle & Co. (Canada) Inc.

Remit To:

A.M. CASTLE & CO.
(CANADA) INC.
DEPT 410079
PO BOX 4375 STN A
TORONTO, ON M5W
0J3

Order No.

WICHITA KS 67216 USA
3050 S HYDRAULIC
Inc.

Date Shipped

13-FEB-2018

Acct No

50676

SOLD TO:

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7CANADA

SHIP TO

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A
1K7CANADA

VAT:

Contract No.

BOL #: 3511510-2

Shipped Via: XPO LOGISTICS FREIGHT

Freight/INCO Terms: Paid HAWKESBURY ON K6A 1K7 Canada

Ln#

3

Ordering Information

Purchase Order #: 38929

Order #: 5033934 Line #: 3

Item #: 752188.MO

Item Description: 1.0000.PL.7075.T651.ALUMINUM.USA.48.5000.144.5000

Cutting Description: CUT 2SIDED TO 2.5 IN (+ .1250/- .0000 IN) X 144.5 IN ()

Process Description: - ALUMINUM PLATE SAW

Country of Origin

US

Specifications: AMS-QA-A-250/12

Email P/s and certs to: clavoie@darlaero.com

Tariff Code:

7606123030

Export License

NLR

ECCN

EAR99

ITAR

N/A

Ordered: 1 PCS

Shipped Qty:

1 PCS

Unit Price:

365.04 / PCS

Net Shipped Weight:

37.62 LBS

Shipping Cost / UOM

365.04

Line Total:

365.04

Taxes:

47.45

Invoice Total:

412.49

Remit to Currency: USD

Amount

365.04

COMMERCIAL INVOICE

Number: 5033934-3-3511510-2

Shipping Mark:

Delivery Number:

121625932

Payment Terms

Terms

DELIVER TO

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7CANADA



A. M. Castle & Co. (Canada) Inc.

Commercial Invoice Summary

Number: 5033934-1-3511510-2
5033934-3-3511510-2
BOL Number: 3511510-2
Delivery Nbr: 121625932

Combined Invoice Total:

Total Extended Line Amount	3,865.72
Total Tax Amount	502.54
Grand Total	4,368.26

A.M. Castle & Co. hereby certify this invoice to be true and correct in all particulars

Signature



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13 February 2018 15:15:25 PM

13 February 2018 15:15:25 PM

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Packing Info:			
Qty	Packaging Description	Net Weight	Tare Weight
1	SKID 120 X 36 X 7	773 LBS	33 LBS
1	TUBE 150 X 4 X 4	38 LBS	10 LBS
			Gross Weight
			806 LBS
			48 LBS



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038929

Supplier: MEC002-VU
Metaux Castle
P.O. Box 4090 Stn A
Toronto
ON
M5W OE9 Canada

PO No: PO038929

PO Date: 2/1/18

Due Date: 2/26/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

E-MAILED
FEB 02 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M7075T73B4.000x4.000		7075-T73 Bar 4.0 X 4.0 Grain Direction Along 4" Wide : MATERIAL: 7075-T73 OR 7075- T7351/T73510/T73511 BAR PER AMS-QQ-A- 200/11 OR AMS-QQ-A- 225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078 receive ft	Firmed	2/26/18	48 ft	0 ft	48 ft	\$107.58333/ft	\$5,164.00
Line Item Note 12 PCS CUT AT 4 FT LONG										
2	M17-4-H1150-R4.000		17-4 SS H1150 Round Bar 4.000" : MATERIAL: 17-4 PH CONDITION H1150 receive ft	Firmed	2/26/18	6 ft	0 ft	6 ft	\$145.75/ft	\$874.50
3	M7075T6S1.000X5.000		7075-T6 Sheet 1" Thick Plate X 5" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$21.75/ft	\$261.00
4	M7075T6S1.250X2.750		M7075T6S1.250" X2.750" Cut From Plate : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$34.30/ft	\$411.60

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
5	M7075T6S6.000X0.250		7075-T6S Sheet 6" Thick Plate X 0.25" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	36 ft	0 ft	36 ft	\$20.75/ft	\$747.00
6	M7075T6S7.000X2.000		7075-T6S Sheet 7" Thick Plate X 2" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	48 ft	0 ft	48 ft	\$78.52/ft	\$3,768.96
7	M7075T6S0.375X6.000		7075-T6S Sheet .375" Thick Plate X 6" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$25.68/ft	\$308.16
8	M7075T6B1.000X00.250		7075-T6 Bar 1.000' X 0.250" : MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$9.92/ft	\$119.04
9	M7075T6S2.000X0.750		7075-T6S Sheet 2" Thick Plate X 0.75" Wide : MAT'L 7075-T6/T62 ALUMINUM SHEET SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209 MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$18.47/ft	\$221.64

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
10	M7075T6S4.500X5.000		7075-T6S Sheet 4.500" Thick X 5.000" Wide : MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	6.125 ft	0 ft <i>9 ft 48.5 inch x 2</i>	6 ft	\$182.19/ft	\$1,115.91
11	M7075T6S1.000X2.500		7075-T6S Sheet 1" Thick Plate X 2.5" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft <i>12 ft</i>	12 ft	\$30.42/ft	\$365.04
12	M7075T6S1.250X2.000		7075-T6 Sheet 1.250" X 2.000" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$20.12/ft	\$241.44
13	M7075T6S0.375X5.000		M7075T6S0.375 X 5.000 : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$18.10/ft	\$217.20
Grand Total:										\$13,815.49

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/1/18 10:20 AM dart.lacelle.linda

Chantal Lavoie

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: Monday, January 22, 2018 1:34 PM
To: Chantal Lavoie
Subject: RE: quote

Good Morning Chantal,

price an delivery on mat'l.

7075t73 bar 4" x 4" x 12 ft cut in section of 4 ft grain direction along 4" ✓
Offer plate \$ 1291.00 Lot 2-3 weeks

12 pcs at 4 ft

17-4 h1150 round bar 4" x 6 ft ✓
\$ 145.75 FT 8-9 days

Bar or sheet acceptable

7075t6 Sheet 1" x 5" x 12 ft \$ 21.75 Ft 2-3 weeks ✓
7075t6 sheet 1.250" x 2.750" x 12 ft \$ 34.30 Ft 2-3 weeks ✓
7075t6 sheet 6" x 0.250" x 36 ft \$ 20.75 Ft 2-3 weeks ✓
7075t6 sheet 7" x 2" x 48 ft \$ 78.52 Ft 2-3 weeks ✓
7075t6 sheet 0.375" x 6" x 12 ft \$ 25.68 Ft 2-3 weeks ✓
7075t6 sheet 1" x 0.250" x 12 ft (2 pcs 6ft) \$ 9.92 Ft 2-3 weeks ✓
7075t6 sheet 2" x 0.750" x 12 ft \$ 18.47 Ft 2-3 weeks ✓
7075t6 sheet 4.5" x 5" x 8 ft cut in section 4 ft 50.125" Long \$ 182.19 Ft 2-3 weeks ✓
7075t6 sheet 1" x 2.5" x 12 ft \$ 30.42 Ft 2-3 weeks ✓
7075t6 sheet 1.250" x 2" x 12 ft \$ 20.12 Ft 2-3 weeks ✓
7075t6 sheet 0.375" x 5" x 12 ft \$ 18.10 Ft 2-3 weeks ✓

D4970-041.

~~303 bar 1" x 3" x 12 ft \$ 107.48 FT 2 weeks~~
~~304 bar 0.750" x 2.5" x 12 ft \$ 24.62 FT 8-9 days~~
~~304 bar 0.500" x 2.5" x 12 ft \$ 19.93 FT 8-9 days~~
~~Round bar bronze 2.375" x 1 ft (63000 spec's) Regret~~

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M70754651.000x2.500

PO / BATCH NO.: 038929/5043348

DATE: FEB 16 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	<u>AMS-QQ-A-290</u>
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	<u>Heat # 705435B6</u>
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 16 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
 SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12
 OR AMS 4045
 OR ASTM B209
 OR

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE
 SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
 OR AMS 4048 / 4049
 OR ASTM B209

△ PART NUMBER: M7075T6S | TTT | X | W.WWW |
 THK | WIDTH |

△ WHERE: "TTT" = THICKNESS (IN INCHES)
 AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
 EG. 0.063" THICK SHEET = M7075T6S.063
 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500
 △ PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

RELEASED
 2017 JUN 19
 EGN 17-574

APPROVED

REV.	DESCRIPTION	CP	17.05.05
A	ADD: REF TO "PLATE" T651 TEMPER AMS 4048. OPTIONAL WIDTH DIM (CAR16-149)	RF	10.11.08
DESIGN	RF	CP	17.05.05
DRAWN	CP	RF	10.11.08
CHECKED	ML	RF	10.11.08
MFG. APPR.	LL	RF	10.11.08
APPROVED	WM	RF	10.11.08
DE APPR.	DS	RF	10.11.08
DATE	17.05.05	RF	10.11.08

DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA
 DRAWING NO. M7075T6S
 7075-T6 SHEET/PLATE SPEC
 SHEET 1 OF 1
 REV. B
 SCALE
 NTS

THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES SPECIFIED ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.

SHIP TO:

A M CASTLE & CO
3050 SOUTH HYDRAULIC
WICHITA, KS 67216

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

SOLD TO:

AM CASTLE & CO- SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

CERTIFIED TEST REPORT

Serial Number
4487066

CUSTOMER PO NUMBER: 435954-1	WORK PACKAGE:	CUSTOMER PART NUMBER: 752188	SHIP RUN/LOAD: 104109/21	GOV'T CONTRACT NUMBER:
KAISER ORDER NO: 1243502-1	SHIP DATE: 24-NOV-2017	ALLOY: 7075	CLAD: BARE	TEMPER: T651
WEIGHT SHIPPED: 3602 LB	QUANTITY: 5 PCS EST.	TRUCK B/L #: 2070342	GAUGE: 1.0000 IN (25.4000 MM)	PRODUCT DESCRIPTION: KaiserSelect Plate
			DIAMETER/WIDTH: 48.500 IN (1231.9 MM)	LENGTH: 144.500 IN (3670.3 MM)

MHU 2164380: LOT 705435B6: 5 pieces;

Certified Specifications

AMS 4045/RevL
ASTM B 209/Rev14
BSS 7055/RevB
DPS 4.713/RevAK
PS 21211/RevP

AMS-QQ-A-250/127RevA
ASTM B 594/Rev13
CMMP 025/RevV
GAMPS 9101/RevB/AmdSCN1

AMS-STD-2154/RevC
BAC 5439/RevJ
CSTI 006/RevE
GSS16100/RevG/Amd1

Test Code: 1512

Lot: 705435B6

Cast 540

Drop 64

Test Results

Ingot 2

Parent Lot: 243261B5

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile: Temper
T651

Dir / # Tests
LT / 2 (Min:Max)

Ultimate KSI (MPA)
80.6 : 81.3
(556 : 561)

Yield KSI (MPA)
71.7 : 72.0
(494 : 496)

Elongation %
13.2 : 13.6

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.17	1.4	0.03	2.5	0.19	5.7	0.03	0.01	0.01	TOT 0.04

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

ORDER COMMENTS

AMC CA-15403 R 8



KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4487066

TEST NOTES

Metal represented by this test report was 100% Type I
(immersion) ultrasonically tested from one side with 3mm
dead zones top and bottom and meets the Class A and Class B
requirements of all specifications referenced on this test
report. No surface marking of sonic indications is
performed.

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:
* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
All test equipment and measuring devices are calibrated and certified in accordance with applicable specifications. For material thicknesses outside specification limits, mechanical properties and
as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
* was melted in the United States of America or a qualifying country per DFARS 225.972-11a, was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for
domestic content.
* has been thermally processed in compliance with AMS 2772, where applicable.
* is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
* is in compliance with RoHS 2, European Union Directive 2011/65/EU.
* is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
* is free of weld repairs.
* meets the reporting requirements of EN10204, Type 3.1.
Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in
full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

James Hemenway

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER



MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 20257657.000 X 2.000

PO / BATCH NO: 038929/5043347

DATE: FEB 16 2018

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 2.000

QUANTITY RECEIVED: 45'

THICKNESS RECEIVED: 2.000

QUANTITY INSPECTED: 45'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	QA A-250/12
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 9388506
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 16 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Constellium



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY

4175 ROYAL DRIVE
KENNESAW GA
30144
US

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A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110539776		4075		INCLUSION		Serial:20170527-0110539776		Pg 1of3	
CUSTOMER PURCHASE ORDER NO. & ITEM 420822						Constellium ORDER NO. 204509					
ALLOY 7075	CLAD	TEMPER T651	GAUGE 2.00000 in 50.80 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm						
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH						CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 88 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager					
CUSTOMER SPECIFICATION AMS QQ-A-250/12A											
PART NUMBER 750616		B/L NUMBER 81380		DATE SHIPPED 05/29/2017							
WT. SHIPPED 7175.000 LB		NO. OF PIECES 000005		GOVT. CONTRACT NO.							

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125"DEADZONE Class A
AMS 4045K
AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE
ASTM B209-14
BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE
CMMP025 REV U
CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001519601	1,443.000	654.533	9388505	01		
1001519601	1,442.000	654.080	9388505	02		
1001524140	1,430.000	648.637	9388506	01		
1001524140	1,430.000	648.637	9388506	02		
1001524140	1,430.000	648.637	9388506	03		

Lot: 9388506

Tensile - Room Temperature (US)

		Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	82.5	82.7	72.5	72.9	13.0	13.0	



Constellium



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY

4175 ROYAL DRIVE
KENNESAW GA
30144
US

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A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110539776		4075		INCLUSION		Serial:20170527-0110539776		Pg 2of3	
CUSTOMER PURCHASE ORDER NO. & ITEM 420822						Constellium ORDER NO. 204509					
ALLOY 7075	CLAD	TEMPER T651	GAUGE 2.00000 in 50.80 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager				
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH											
CUSTOMER SPECIFICATION AMS QQ-A-250/12A											
PART NUMBER 750616		B/L NUMBER 81380		DATE SHIPPED 05/29/2017							
WT. SHIPPED 7175.000 LB		NO. OF PIECES 000005		GOVT. CONTRACT NO.							

Tensile - Room Temperature (SI)

		Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	569	570	500	503	13.0	13.0	

Chemistry (Actual)

	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.07	0.15	1.51	0.03	2.60	0.22	5.73	0.04	0.01

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

Lot: 9388506

Tensile - Room Temperature (US)

		Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	81.8	82.3	72.0	72.8	11.5	12.5	



Constellium



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY

4175 ROYAL DRIVE
KENNESAW GA
30144
US

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A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE 110539776 4075 INCLUSION Serial:20170527-0110539776 Pg 3of3

CUSTOMER PURCHASE ORDER NO. & ITEM
420822

Constellium ORDER NO.
204509

ALLOY 7075	CLAD	TEMPER T651	GAUGE 2.00000 in 50.80 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm
---------------	------	----------------	---------------------------------	----------------------------------	------------------------------------

ITEM ORDERED
SPEC PLATE, SAWED
MILL FINISH

CUSTOMER SPECIFICATION
AMS QQ-A-250/12A

PART NUMBER
750616

B/L NUMBER
81380

DATE SHIPPED
05/29/2017

WT. SHIPPED
7175.000 LB

NO. OF PIECES
000005

GOVT. CONTRACT NO.

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC
859 Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

Steve Good

Steve Good - Laboratory Manager

Tensile - Room Temperature (SI)

		Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	564	567	496	502	11.5	12.5	

Chemistry (Actual)

	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.07	0.15	1.51	0.03	2.60	0.22	5.73	0.04	0.01

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

QUALITY TEXTS:
AMC CA-15403A R 7

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT

WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399

WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557

DUNS Number: 090570149; CAGE Code: 1YW19

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
 SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12
 OR AMS-4048
 OR ASTM B209

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE
 SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
 OR AMS 4048 / 4049
 OR ASTM B209

PART NUMBER: M7075T6S | TTT | X | W.WWW |
 THK | WIDTH |

WHERE "TTT" = THICKNESS (IN INCHES)
 AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
 EG. 0.063" THICK SHEET = M7075T6S.063
 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500
 .TTT BY 4 FT BY 10 FT FOR SHEET

PREFERRED SIZE:

RELEASED
 2017 JUN 19
 EGN 17-574

APPROVED

B	ADD. REF. TO "PLATE", "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CARB-149)	CP	17.05.05
A	NEW ISSUE	RF	10.11.08
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	CP		
CHECKED	ML		
MFG. APPR.	LL		
APPROVED	WM		
DE APPR.	DS		
DATE	17.05.05		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M7075T6S
TITLE	7075-T6 SHEET/PLATE SPEC
REV. B	SHEET 1 OF 1
SCALE	NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M707577384.000X4.000

PO / BATCH NO.: 038929/5043346

DATE: FEB 16 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 48"
 QUANTITY INSPECTED: 48"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.000
 THICKNESS RECEIVED: 4.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	<u>AMS-Q-QA-250</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	<u>Heat # 22900085-24507605</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>9-81 FEB 16 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DART

DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. M707ST73B	REV. A SHEET 1 OF 1
DATE 01.06.08		TITLE 7075-T73 BAR	SCALE NTS
A	01.06.08	NEW ISSUE	

PURCHASE MATERIAL: 7075-T73 (OR 7075-T7351/T73510/T73511) BAR
PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 (AMS 4124)
OR AMS-QQ-A-250/12 (AMS 4078)

PART NUMBER: M707ST73B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK | WIDTH | WW.WWW = WIDTH (IN INCHES)

EG. 2.5" x 3.25" BAR = M707ST73B2.500 x 03.250

RELEASED
01 Dec 15

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SHIP TO:
A M CASTLE METALS
4175 ROYAL DRIVE, SUITE 600
KENNESAW, GA 30144

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4470032

SOLD TO:
AM CASTLE & CO- SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

CUSTOMER PO NUMBER: 429644-1	WORK PACKAGE:	CUSTOMER PART NUMBER: 752132	SHIP RUN/LOAD: 103978/17	GOVT CONTRACT NUMBER:
KAISER ORDER NO: 1239797-1	SHIP DATE: 13-JUL-2017	ALLOY: 7075	CLAD: BARE	TEMPER: T7351
WEIGHT SHIPPED: 5690 LB	QUANTITY: 2 PCS EST.	TRUCK B/L #: 2067864	GAUGE: 4.6000 IN (101.6000 MM)	PRODUCT DESCRIPTION: KaiserSelect Plate
			DIAMETER/WDTH: 48.500 IN (1231.9 MM)	LENGTH: 144.500 IN (3670.3 MM)

MHU 2127812: LOT 229000B5: 1 pieces;
MHU 2127813: LOT 229000B5: 1 pieces;

Certified Specifications

AMS 4078/RevJ
ASTM B 209/Rev14
BSS 7055/RevB
DPS 4.713/RevAK
MIMS 159/RevT

AMS-QQ-A-250/12/RevA
ASTM B 594/RevT3
CMMP 025/RevV
GAMPS 9101/RevB/AmdSCN1
PS 21211/RevP

AMS-STD-2154/RevC
BAC 5439/RevJ
CSTI 006/RevE
GSS16100/RevG/Amd1

Test Code: 4297

Lot: 229000B5

Cast 476

Drop 16

Test Results

Ingot 5

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 3 (Min:Max)	63.7 : 64.6 (439 : 445)	50.4 : 51.8 (348 : 357)	10.6 : 10.8

(ASTM E1004)

(EN 2004-1)

Conductivity %IACS :	41.3 Min	41.6 Max
(MS/M) :	24.0 Min	24.1 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.17	1.5	0.03	2.4	0.20	5.7	0.03	0.01	0.02	TOT 0.05



KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4470032

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

ORDER COMMENTS

AMC CA-15413E R 6

TEST NOTES

Metal represented by this test report was 100% Type I
(immersion) ultrasonically tested from one side with 3mm
dead zones top and bottom and meets the Class A and Class B
requirements of all specifications referenced on this test
report. No surface marking of sonic indications is
performed.

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

* All test equipment and measuring devices are calibrated and certified in accordance with applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.

* was melted in the United States of America or a qualifying country per DFARS 225.672-11(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.

* has been thermally processed in compliance with AMS 2772, where applicable.

* is mercury free, within the limits of detection of ASTM E1215 <1 ppm.

* is in compliance with RoHS 2, European Union Directive 2011/65/EU.

* is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.

* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

* is free of weld repair.

* meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER



Constellium



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY
4175 ROYAL DRIVE
KENNESAW GA
30144
US

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A M CASTLE
1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE 110539776 4075 INCLUSION Serial:20170527-0110539776 Pg 1of3

CUSTOMER PURCHASE ORDER NO. & ITEM
420822

Constellium ORDER NO.
204509

ALLOY	CLAD	TEMPER	GAUGE	WIDTH	LENGTH
7075		T651	2.00000 in 50.80 mm	48.50000 in 1,232 mm	144.50000 in 3,670 mm

ITEM ORDERED
SPEC PLATE, SAWED
MILL FINISH

CUSTOMER SPECIFICATION
AMS QQ-A-250/12A

PART NUMBER	B/L NUMBER	DATE SHIPPED
750616	81380	05/29/2017

WT. SHIPPED	NO. OF PIECES	GOVT. CONTRACT NO.
7175.000 LB	000005	

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."
Constellium Rolled Products Ravenswood, LLC
859 Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

Steve Good

Steve Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A
AMS 4045K
AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE
ASTM B209-14
BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE
CMMPO25 REV U
CST1006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001519601	1,443.000	654.533	9388505	01		
1001519601	1,442.000	654.080	9388505	02		
1001524140	1,430.000	648.637	9388506	01		
1001524140	1,430.000	648.637	9388506	02		
1001524140	1,430.000	648.637	9388506	03		

Lot: 9388505

Tensile - Room Temperature (US)

Direction	Tests	Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
		Min	Max	Min	Max	Min	Max	
LT	02	82.5	82.7	72.5	72.9	13.0	13.0	



Constellium



CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

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T
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A M CASTLE & COMPANY
4175 ROYAL DRIVE
KENNESAW GA
30144
US

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T
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A M CASTLE
1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110539776		4075		INCLUSION		Serial:20170527-0110539776		Pg 2of3	
CUSTOMER PURCHASE ORDER NO. & ITEM 420822						Constellium ORDER NO. 204509					
ALLOY 7075	CLAD	TEMPER T651	GAUGE 2.00000 in 50.80 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager				
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH											
CUSTOMER SPECIFICATION AMS QQ-A-250/12A											
PART NUMBER 750616			B/L NUMBER 81380		DATE SHIPPED 05/29/2017						
WT. SHIPPED 7175.000 LB		NO. OF PIECES 000005		GOVT. CONTRACT NO.							

Tensile - Room Temperature (SI)				Yield (N/MM2)		Elongation (%)		Report
Ultimate (N/MM2)								
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	569	570	500	503	13.0	13.0	

Chemistry (Actual)

	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.07	0.15	1.51	0.03	2.60	0.22	5.73	0.04	0.01

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

Lot: 9388506

Tensile - Room Temperature (US)				Yield (KSI)		Elongation (%)		Report
Ultimate (KSI)								
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	81.8	82.3	72.0	72.8	11.5	12.5	

SHIP TO:

A M CASTLE & CO
3050 SOUTH HYDRAULIC
WICHITA, KS 67216

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

SOLD TO:

AM CASTLE & CO- SOLD TO
1420 KENSINGTON RD
SUITE 220
OAK BROOK, IL 60523

CERTIFIED TEST REPORT

Serial Number

4487066

CUSTOMER PO NUMBER: 435954-1	WORK PACKAGE:	CUSTOMER PART NUMBER: 752188	SHIP RUN/LOAD: 104109/21	GOV'T CONTRACT NUMBER:	
KAISER ORDER NO: 1243502-1	SHIP DATE: 24-NOV-2017	ALLOY: 7075	CLAD: BARE	TEMPER: T651	PRODUCT DESCRIPTION: KaiserSelect Plate
WEIGHT SHIPPED: 3602 LB	QUANTITY: 5 PCS EST.	TRUCK B/L #: 2070342	GAUGE: 1.0000 IN (25.4000 MM)	DIAMETER/WIDTH: 48.500 IN (1231.9 MM)	LENGTH: 144.500 IN (3670.3 MM)

MHU 2164380: LOT 705435B6: 5 pieces;

Certified Specifications

AMS 4045/RevL
ASTM B 209/Rev14
BSS 7055/RevB
DPS 4.713/RevAK
PS 21211/RevP

AMS-QQ-A-250/12/RevA
ASTM B 594/Rev13
CMMP 025/RevV
GAMPS 9101/RevB/AmdSCN1

AMS-STD-2154/RevC
BAC 5439/RevJ
CSTI 006/RevE
GSS16100/RevG/Amd1

Test Code: 1512

Lot: 705435B6

Cast 540

Drop 64

Test Results

Ingot 2

Parent Lot: 243261B5

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 2 (Min:Max)	80.6 : 81.3 (556 : 561)	71.7 : 72.0 (494 : 496)	13.2 : 13.6

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.17	1.4	0.03	2.5	0.19	5.7	0.03	0.01	0.01	TOT 0.04

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

ORDER COMMENTS

AMC CA-15403 R 8



KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4487066

TEST NOTES

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- * has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- * All test equipment and measuring devices are calibrated and certified in accordance with applicable specifications. For material thicknesses outside specification limits, mechanical properties and as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- * was melted in the United States of America or a qualifying country per DFARS 225.872-11(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- * has been thermally processed in compliance with AMS 2772, where applicable.
- * is mercury free, within the limits of detection of ASTM E1215 (< 1 ppm).
- * is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- * is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- * is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- * is free of weld repair.
- * meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on this certificate may be punished as a felony under federal law.


JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

